

Science Forum



Research, Development and Education – The Basis for Wide-spread Employment of Renewable Energies

Wissenschaftszentrum Bonn
1st June 2004

Under the patronage of the
Federal Minister of Education and Research
Edelgard Bulmahn

The Science Forum is organized by the
Solar Energy Research Association (FVS)
in the context of the renewables 2004 conference

Last Update: 27. April 2004

Science Forum in the context of the renewables 2004 conference

- **Date**
1st June 2004
- **Location**
Wissenschaftszentrum Bonn
Ahrstr. 45
53175 Bonn
Germany
- **Responsible for the scientific program**
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- **For most recent update please see
www.fv-sonnenenergie.de**

■ Invitation

Ladies and Gentlemen,

environmental problems do not stop at national borders, environmental solutions demand a global perspective. Science and education on renewable energies, therefore, need to consider the specific conditions in developing countries.

One of the main obstacles for the application of renewable energy technologies is the lack of knowledge about how they work, about their potentials and how to use them. Research on applications of renewable energies and training of local experts play thus a pivotal role in global solutions to environmental problems.

The science forum will demonstrate the significance of science, research, education, and training for the global dissemination and application of renewable energy technologies, and for the goal of sustainable development. To this end, the science forum shall connect both human and institutional capacities in a global perspective, name requirements to research and training programs, and discuss what actions need to be taken.

Market launch and research and development of renewable energies must be coordinated. The technological solutions to energy problems are available today. We now need the political will and action to implement them, as Klaus Toepfer, Executive Director of UNEP, said. Research and education policies must bridge the existing knowledge gaps.



Jürgen Schmid · FVS/ISET

Responsible for the program of the science forum



Programme

1st June 2004

■ Opening session

Chair: Jürgen Schmid · FVS (Ger)

- 10.15 • Welcome address,
Jürgen Schmid · FVS/ISET (Ger)
- 10.25 • The significance of research and
education for renewable energies,
Edelgard Bulmahn (tbc) · BMBF (Ger)
- 10.50 • Science and education as key to development,
Koichiro Matsuura (tbc) · UNESCO

■ Research, Development and Education

Chair: Jürgen Schmid · FVS (Ger)

- 11.15 • Global Research and Development on Renewables
– Needs, Contexts and Structures,
Joachim Luther · GRA/FVS/Fraunhofer ISE (Ger)
- 11.45 • UNESCO Global Renewable Energy Education
and Training (GREET) Programme,
Osman Benchikh · UNESCO

■ Renewable Energy Research in a Global Perspektive

Chair: John Christensen (tbc),
GNESD/ Risoe Centre (DK)

- 12.15 • Research and development needs on renewable
energies in industrial countries,
Sigurd Wagner · University of Princeton (USA)
- 12.35 • Research and development needs on renewable
energies in developing countries,
N.N. · CSIR (South Africa)
- 12.55 • The challenge of renewable energies integration
in energy distribution systems,
Jagan Nath Shrestha · Center for Energy Studies
(Nepal)

Lunch Break 13.15 –14.15

■ Renewable Energy Education Networks

Chair: Raffaele Liberali (tbc) · EU-Commission (B)

- 14.15 • Integrating renewable energies into society
Martin Scheepers · ECN (NL)
- 14.35 • Access to modern Energy
Stephen Karakezi (tbc) · GNESD/AFREPREN (Kenya)
- 14.55 • EUREC'S MSc in Renewable Energies,
Didier Mayer · CENERG (F)
- 15.15 • The International Institute for
Renewable Energies (IIRE),
Wattanapong Rakwichian · SERT (Thailand)

Break 15.35 – 15.55

■ Renewable Energy Education Networks

Chair: Walter Erdelen (tbc) · UNESCO

- 15.55 • UNESCO – GREET Programme in an African view,
Lamine Kadi · University of Mostaganem (Algeria)
- 16.10 • UNESCO – GREET Programme
in an southamerican view,
Alfredo Curbelo · Innovation and Energy (Cuba)
- 16.25 • UNESCO – GREET Programme in a European view,
Spyros Kyritsis · AUA (GR)
- 16.40 • Internet-Based Renewable Energy
Education and Training Network,
Jürgen Schmid · FVS/ISET (Ger)

■ Panel Discussion

17.00 –18.00

- **Requirements to future research,
education, and training programmes**
- **Regional, international, global –
degree of information exchange,
cooperation, and networks of education
and research**
- **Participants:**
Edelgard Bulmahn (tbc) · BMBF (Ger),
N.N. · CSIR (South Africa),
Didier Mayer · EUREC-Agency (F),
John Christensen · GNESD (DK),
Osman Benchikh · UNESCO,
Hans-Josef Fell · EUROSOLAR (Ger)
- **Moderator:** Martha Lux-Steiner · FVS/HMI (Ger)



Side Events

1st June 2004

■ **Energy Research Centre**

11.00 – 13.00, Room S 1

Renewable Energy and Sustainable Development: Role of Research and Academic Institutions

contact: Stanford A.J. Mwakasonda (South Africa)

■ **Study group DLR, WI, IFEU, ZSW in connection with BMU (Federal Ministry of Environment), Institute for Sustainable Solutions and Innovations (ISUSI)**

11.00 – 13.00, Room S 2-4

Germany goes Renewables – A scientific view on visions, strategies and main steps for a central European country

contact: Joachim Nitsch · DLR (Ger)

Scenarios towards an energy system based fully on renewable sources

contact: Harry Lehmann · ISUSI (Ger)

■ **The International Solar Energy Society (ISES)**

13.00 – 15.00, Room S 1

Transitioning to a Renewable Energy Future,

contact: Rian van Staden (NL)

■ **Institute for environmental economic research (IÖW), Federal Association for Renewable Energies (BEE), European Renewable Energy Federation (EREF)**

15.00 – 17.00, Room S 1

Promotion of Renewable Energies for Heating and Cooling – Innovative Instruments in Industrialised Countries and Initiatives in the EU

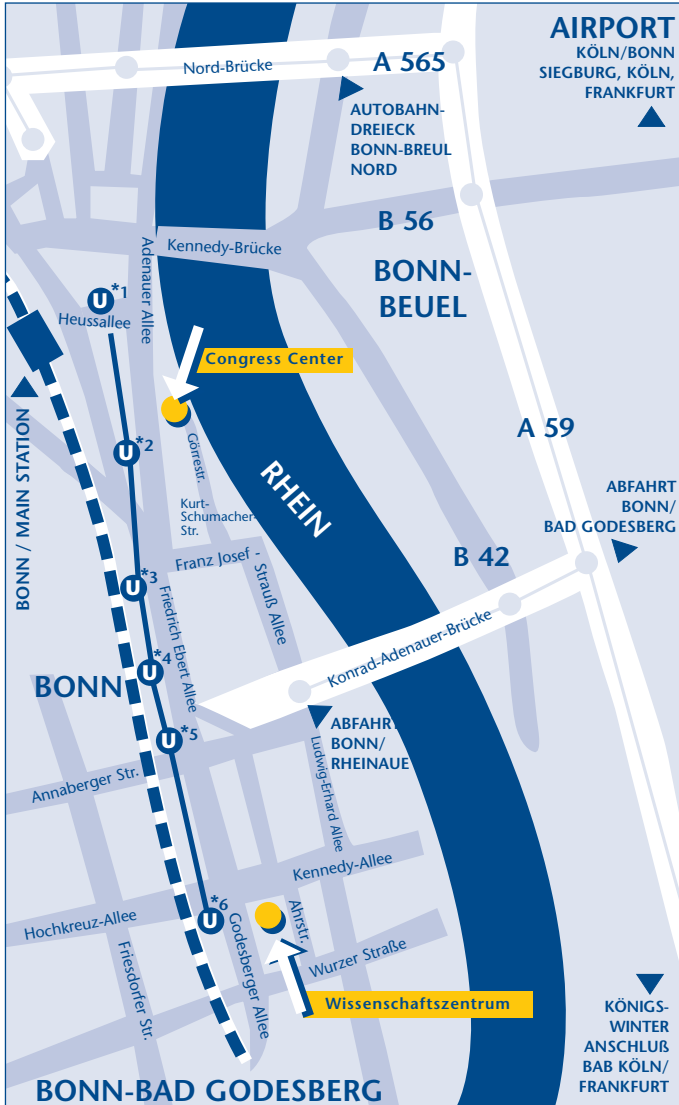
contact: Bernd Hirschl (Ger)

■ **Consortium of DAAD, University of Flensburg, University of Bonn (ZEF), University of Göttingen and University of Oldenburg**

15.00 – 17.00, Room S 2-4

Capacity Building in Developing Countries – From the Classroom to the Village

contact: Michael Harms (Ger)



Underground Stations:

- | | | | |
|-------------|-------------------|-------------|-----------------------------|
| U *1 | Museum Koenig | U *4 | Deutsche Telekom |
| U *2 | Heussallee | U *5 | Max-Löbner-Str./Friesendorf |
| U *3 | Ollenhauerstrasse | U *6 | Hochkreuz/Deutsches Museum |

Site Plan

- **Science Forum**
Wissenschaftszentrum Bonn
 Ahrstr. 45
 53175 Bonn
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 Tel.: +49 (0) 228/302-70
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 www.wzbonn.de
 Underground Station: Hochkreuz

- **renewables 2004**
International Congress Center
 (Plenary Chamber and Waterworks)
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 53113 Bonn
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 Underground Station: Heussallee

Hotels

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■ Member institutes



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GERMANY

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1st June 2004

Wissenschaftszentrum Bonn
Ahrstr. 45
53175 Bonn
Germany

■ Registration

There are no fees for registration or participation.
Please register as participant of Side Events as well.

title, name, first name

organisation

street

city

country

phone

e-mail (in order to confirm your registration)

**In case of requests
concerning your registration
please contact:**

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